# Performance Data Sheet

## AEA3448YXA

## General Information

| | | | |
|---|---|---|---|
| **Model** | AEA3448YXA | **Refrigerant** | R-134a |
| **Test Condition** | ARI | **Performance Test Voltage** | 115V ~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | RSIR |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **80** | **90** | **100** | **110** | **120** | **130** | **140** |
| **20** | Btu/h | 3710 | 3400 | 3100 | 2800 | 2480 | 2120 | 1700 |
| | Watts | 429 | 467 | 494 | 514 | 528 | 539 | 550 |
| | Amps | 6.28 | 6.51 | 6.67 | 6.78 | 6.85 | 6.90 | 6.94 |
| | Lb/h | 49.6 | 46.8 | 44.5 | 42.1 | 39.3 | 35.6 | 30.7 |
| **25** | Btu/h | 4140 | 3810 | 3490 | 3180 | 2850 | 2500 | 2100 |
| | Watts | 452 | 492 | 522 | 544 | 562 | 577 | 593 |
| | Amps | 6.40 | 6.65 | 6.83 | 6.97 | 7.07 | 7.16 | 7.25 |
| | Lb/h | 55.0 | 52.2 | 50.0 | 47.8 | 45.4 | 42.2 | 37.9 |
| **30** | Btu/h | 4640 | 4270 | 3930 | 3600 | 3260 | 2900 | 2510 |
| | Watts | 475 | 518 | 550 | 576 | 597 | 616 | 637 |
| | Amps | 6.53 | 6.80 | 7.00 | 7.17 | 7.30 | 7.43 | 7.56 |
| | Lb/h | 61.6 | 58.7 | 56.3 | 54.3 | 52.1 | 49.3 | 45.6 |
| **35** | Btu/h | 5210 | 4800 | 4420 | 4060 | 3710 | 3330 | 2940 |
| | Watts | 499 | 544 | 579 | 607 | 632 | 656 | 681 |
| | Amps | 6.68 | 6.96 | 7.19 | 7.38 | 7.55 | 7.71 | 7.88 |
| | Lb/h | 69.3 | 66.1 | 63.6 | 61.6 | 59.5 | 57.0 | 53.7 |
| **40** | Btu/h | 5860 | 5390 | 4970 | 4570 | 4190 | 3790 | 3380 |
| | Watts | 524 | 570 | 608 | 640 | 668 | 696 | 725 |
| | Amps | 6.85 | 7.15 | 7.39 | 7.61 | 7.80 | 8.00 | 8.21 |
| | Lb/h | 78.2 | 74.6 | 71.8 | 69.6 | 67.6 | 65.2 | 62.3 |
| **45** | Btu/h | 6580 | 6050 | 5570 | 5130 | 4700 | 4280 | 3840 |
| | Watts | 548 | 597 | 637 | 672 | 704 | 736 | 770 |
| | Amps | 7.03 | 7.34 | 7.61 | 7.84 | 8.07 | 8.30 | 8.55 |
| | Lb/h | 88.3 | 84.1 | 81.0 | 78.5 | 76.4 | 74.1 | 71.3 |
| **50** | Btu/h | 7370 | 6770 | 6230 | 5730 | 5260 | 4790 | 4320 |
| | Watts | 573 | 624 | 667 | 705 | 740 | 776 | 815 |
| | Amps | 7.23 | 7.55 | 7.83 | 8.09 | 8.34 | 8.60 | 8.89 |
| | Lb/h | 99.6 | 94.8 | 91.1 | 88.3 | 85.9 | 83.6 | 80.8 |
| **55** | Btu/h | 8240 | 7560 | 6940 | 6380 | 5850 | 5330 | 4820 |
| | Watts | 598 | 651 | 696 | 737 | 777 | 817 | 860 |
| | Amps | 7.44 | 7.77 | 8.07 | 8.35 | 8.62 | 8.91 | 9.23 |
| | Lb/h | 112 | 107 | 102 | 99.0 | 96.2 | 93.7 | 90.9 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 6.099849E+03 | -6.797622E+02 | -3.336427E-01 | 1.077675E+02 |
| C2 | 5.268807E+01 | 4.121276E+00 | -2.407471E-03 | 4.358225E-01 |
| C3 | -7.209212E+01 | 2.478596E+01 | 1.579685E-01 | -1.795644E+00 |
| C4 | 2.866458E+00 | 2.256313E-02 | 7.147798E-04 | 3.865856E-02 |
| C5 | -1.005360E+00 | -4.492667E-02 | -3.177985E-04 | -1.501807E-02 |
| C6 | 5.726265E-01 | -1.856723E-01 | -1.203092E-03 | 1.692222E-02 |
| C7 | 8.154755E-04 | -1.315247E-04 | -1.103680E-06 | 3.637007E-05 |
| C8 | -1.864706E-02 | -9.633010E-06 | -3.282462E-06 | -2.387776E-04 |
| C9 | 7.872633E-03 | 5.120034E-04 | 5.009394E-06 | 1.444084E-04 |
| C10 | -2.537104E-03 | 4.497205E-04 | 2.777073E-06 | -6.670508E-05 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature